

CURRICULUM VITAE

Warren E. Williams, Ph.D.

*Associate Professor of Biology and Chair
Department of Biology, Texas Southern University
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EDUCATION

- Ph.D. University of Illinois; 1975, Urbana, Illinois, Cellular and Molecular Biology
- M.S. Texas Southern University; 1969, Developmental Biology
- B.S. Texas Southern University, 1967, Biology

PROFESSIONAL EXPERIENCE

A. ACADEMIC

1. Tenure Granted
Texas Southern University
August, 1982
2. Associate Professor of Biology
Texas Southern University
August, 1981-Present
3. Assistant Professor of Biology
Texas Southern University
August, 1974-1981
4. Research Assistant
Department of Microbiology
University of Illinois, 1969-1971
5. Assistant Instructor
Department of Biology
Texas Southern University, 1967-1969

B. ADMINISTRATION

1. Chairman, Department of Biology
Texas Southern University
September 2016 - Present
2. Interim Chair, Department of Biology
Texas Southern University
2011-2016

3. Chairman, Department of Biology
Texas Southern University
1986-1992
4. Program Director
Minority Biomedical Research Support Grant
January 1985-December 31, 1987

UNIVERSITY GOVERNANCE

A. COMMITTEES

1. University
 - a. Committee on Honors and Scholarship
 - b. Committee on Placement and Career Planning
 - c. Self-Study Review Committee on the Weekend College
 - d. University Research Fellowship Committee
 - e. Search Committee, Dean, School of Pharmacy
 - f. Search Committee, Dean of the Thomas Freeman Honors College
 - g. Graduate Council
 - h. TSU-IRB (Institutional Review Board) Re; The Use of Human Research Subjects, Committee Chair for a period of sixteen years.
 - i. University Hearing Committee (two assignments)
 - j. Committee for the Care and Use of Laboratory Animals
 - k. University Safety Committee
2. College of Arts and Sciences/College of Science and Technology
 - a. College of Arts and Sciences Self Study Committee
 - b. Denton S. Cooley Fellowships Advisory Committee - Chairman
 - c. Elected representative to the University Hearing Committee
 - d. Rank and Tenure Committee
3. Department
 - a. Committee on Research Education- Chairman
 - b. Committee on Freshman Studies- Chairman of Majors section
 - c. Committee on Health Related Professions
 - d. Committee on the Library- Co-Chairman
 - e. Curriculum Committee
 - f. Department of Biology Senior Advisory Committee Coordinator of the Second Year Core Program
 - g. Grievance Committee
 - h. Senior Graduate Advisor - charged with clearing all graduating department majors through the Office of the Registrar.

PROFESSIONAL SERVICE

A. SERVICE TO PROFESSIONAL SOCIETIES

1. Vice President of the Southwestern Region of Beta Kappa Chi National Scientific Honors Society

B. PROFESSIONAL SERVICE TO THE COMMUNITY

1. Member of the Steering Committee-Summer Work and Study Program. Baylor College of Medicine (Five Years).
2. Member of the Institutional Surveillance Committee, M.D. Anderson Hospital and Tumor Institute. (Seven Years).
3. Graduate Record Exam Workshop on Graduate Education in Science. Panel Member, Westin Galleria Hotel. Houston, Texas.
4. Grant Reviewer. National Science Foundation.
5. Consultant to EOG Resources as Scholarship Committee Member for fifteen years.

OTHER COMMUNITY SERVICE:

Minister of Christian Marriage and Counseling - Wheeler Avenue Baptist Church
Certified by the American Association of Pastoral Care Specialists,
Board Certified Biblical Counselor - The American Association of Christian Counselors
(Pending).

PROFESSIONAL GROWTH AND DEVELOPMENT

A. SHORT COURSE PARTICIPANT

1. Research Management Improvement Workshop; Baylor College of Medicine.
2. Air Force Research and Development Workshop; Atlanta, Georgia.

PROFESSIONAL AFFILIATIONS

1. American Association for the Advancement of Science
2. American Society for Microbiology – Texas Branch
3. Beta Beta Beta Biological Society
4. Beta Kappa Chi National Scientific Honor Society – Regional Vice President.
5. New York Academy of Sciences.
6. Sima Xi – the Scientific Research Society
7. Texas Association of Advisors for the Health Professions (TAAHP)

HONORS/AWARDS/DISTINCTIONS

1. Outstanding Young Men in America
2. Southern funds Fellow
3. Biomedical Sciences Research Assistantships, University of Illinois
4. Professor of the Year. College of Science and Technology.
5. Fellow, The American Council on Education

RESEARCH INTERESTS:

1. The mechanism of action of viral (Bacteriophage T4) gene products.
2. Factors controlling viral DNA replication and repair.

RESEARCH GRANTS AND CONTRACTS

1. Studies into the Mechanism of Action of the Bacteriophage T 4 Gene 42 Protein Product. Faculty Research Grant; Texas Southern University; Funded. Principle Investigator; \$4,000.
2. The Mechanism of Action of the Bacteriophage T4 Gene 42 Protein Product. Division of Research Resources-National Institutes of Health (Supplemental); Funded. Principle Investigator. \$36,500
3. The Mechanism of Action of the Bacteriophage T4 Gene 42 Protein Product. MBSNIH (Renewal); Funded; Principle Investigator; \$125,000
4. Cytosineless Mutagenesis in Bacteriophage T4. Division of Research Resources. National Institutes of Health. (Supplemental); Funded; Principle Investigator; \$16,000.
5. Cytosineless Mutagenesis in Bacteriophage T4-NIH Renewal-Funded. Principle Investigator, \$184,000.
6. High School Student Research Apprentice Grant- MBRS Program – NIH- Program Director; Funded, \$9,000.
7. MARC Honors Undergraduate Research Training Grant. HEW-NIH. Faculty Participant.
8. Minority High School Student Research Apprentice Program, Division of Research Resources; MBRS-NIH; Program Director; Funded \$6,000.
9. The Influence of Cytosine Starvation On the Integrity of DNA Synthesis in Bacteriophage T4. (Renewal) MBRS-NIH-Principle Investigator. Funded. \$202,402.

OTHER PROPOSALS

1. NSF Engineering Research Center for Cyberphysical Bioreactor Optimization (CyBIO); A multidisciplinary team of four academic partners: University of Houston, UC Santa Barbara, Texas Southern University, and the University of Michigan; Contributor to the Educational Outreach & Implementation Component. Not Funded, 2015

2. AGEP-KAT TSU Rice Master's-to-PhD Bridge Program; Dina Myers Stroud, Executive Director. Not Funded, 2015.
3. Cell Biology: A Contemporary Perspective; National Science Foundation; Not Funded; Program Director; \$235,000.
4. Premed Enrichment Program. Health and Human Resources (HCOP). Not Funded. Co-Director. \$400,000.

PUBLICATIONS

A. Abstracts

5. Williams, W.E. and J.W. Drake. *Mutagenesis in Bacteriophage T4*. American Society for Microbiology **104**:218.

B. Articles

1. Williams, Warren E. and John W. Drake. *Mutator Mutations in Bacteriophage T4 gene 42 (dHMC Hydroxymethylase)*. Genetics **86**: 501- 511.
2. Cormier, Ethel M. and Warren E. Williams. *Ethyl Methanesulfonate Induced Reversion During Cytosine Deprivation in Bacteriophage T4:I. Inactivation Kinetics*. Mutation Research (Manuscript).
3. Cormier, Ethel M. and Warren E. Williams; *Ethyl Methanesulfonate Induced Reversion During Cytosine Deprivation in Bacteriophage. T4:II. Reversion Studies*; Mutation Research (Manuscript).

PRESENTATIONS:

1. Williams, W.E. and J.W. Drake; *Mutagenesis in Bacteriophage T4*. American Society for Microbiology Annual Meeting. Chicago, Illinois.
6. Williams, W.E. *Studies into the Mechanism of Action of the Bacteriophage T4 Gene 42 Protein Product*. Joint Annual Meeting of the Beta Kappa Chi National Institute of Science, Dallas, Texas.
7. Williams, W.E. *Mutagenesis in Bacteriophage T4*. Annual Symposium. Minority Biomedical Support Program; New Orleans, Louisiana.
8. Jones, Bertha M. and W.E. Williams. *Mutations in the Gene 42 Protein Product of Bacteriophage T4*. Annual Symposium. New Orleans, LA.

The following presentations were made at (1) The National Meeting of the Beta Beta Beta Biological Honor Society, Houston, Texas. (2) The Southwest Regional (Wiley College) and National Meetings of Beta Kappa Chi Scientific Honors Society and the National Institute of Science, Atlanta, Georgia and (3) The Sixth Annual NBS Biomedical Symposium, Atlanta, Georgia.

9. Oliver, Gloria .and W.E. Williams. *Cytosineless Mutagenesis in Bacteriophage T4:I. The Mass Action Hypothesis.*
10. Wilson, Gene and W. E. William. *Cytosineless Mutagenesis in Bacteriophage T4:II. dCMP Hydroxymethylase and DNA Polymerase Interactions.*
11. Swanson, Jocelyn and W.E. Williams. *Cytosineless Mutagenesis in Bacteriophage T4:III. The Effect of \underline{px} and \underline{y} Repair Mutations.*
12. Jones, Bertha and W.E. Williams. *Cytosineless Mutagenesis in Bacteriophage T4:N. A Suggested Mechanism of Action.*
The following presentations were made at (1) The Proceedings of the Seventh Annual MBRS Biomedical Symposium, Atlanta, Georgia. (2) The 25th Annual Regional Meeting of the Beta Kappa Chi Scientific Honors Society, Houston, Texas. (3) The 36th Annual National Meeting of the National Institute of Science and Beta Kappa Chi Scientific Honors Society in Concurrent Session with Brookhaven Semester Program, Tuskegee, Alabama.
9. James, S. and W.E. Williams. *Mutator Mutations in Bacteriophage T4 Gene 42.*
10. Louis, K. and W. E. Williams. *Interactions Between dCMP Hydroxymethylase and DNA Polymerase in Bacteriophage T4.*
11. Richard, Alex and W.E. Williams. *The Effect of \underline{px} and \underline{y} . Repair Gene Mutations on Cytosineless Mutagenesis.*
12. Cormier, E. and W.E. Williams. *The Effect of Exogenous Ethyl Methanesulfonate (EMS) on Cytosineless M.utagenesis.*
13. Williams, Warren E. *Ethyl Methanesulfonate Induced Reversion During Cytosine Deprivation in Bacteriophage T4.* The Ninth Annual Minority Biomedical Research Support Symposium. Albuquerque, New Mexico.

And

The 38th Annual National Meeting of the National Institute of Science and Beta Kappa Chi Scientific Honors Society in Concurrent Session with the Brookhaven Semester Program. Houston , Texas.
14. Jones, A., Pollard, B. and Williams, W.E. *Reversion Analysis of Ethyl Methanesulfonate in Bacteriophage T4.* The 10th Annual MBRS Symposium, Albuquerque, N.M.
15. Mitchell, Sheri, Jones, Andrea and Warren Williams. *Inactivation Kinetics of Ethyl Methanesulfonate in Bacteriophage T4.* The 10th Annual MI3RS Symposium, Albuquerque, N.M.
16. Beta Kappa Chi- National Institute of Science (regional). University of Arkansas at Pine Bluff. Presenters - Andrea Jones and Warren Williams (two papers).

17. Minority Biomedical Research Support Program Symposium; Howard University; Presenters - Andrea Jones and Irma Sanchez (two papers).
17. Beta Kappa Chi- National Institute of Science National Symposium. Atlanta University Atlanta, Georgia. Attendance and participation as Texas Southern University Advisor.
18. Samuel Nabrit Honors Symposium. Lecturer; Texas Southern University
19. Annual Beta Kappa Chi National Scientific Honors Society- National Institutes of Science Regional Meeting. Texas College. Tyler Texas. *The Use of Alkylating Agents in Defining Gene Function in Bacteriophage T4.*
20. The 42nd Annual Joint Meeting of the Beta Kappa Chi- National Institute of Science and the Brookhaven Semester Program. New Orleans, Louisiana.
21. The National Technical Association Winter Technical Symposium. Hobby Hilton, Houston, Texas.

OTHER MEETINGS ATTENDED

1. The Seventh Annual Marra McLean Lectures in Biochemistry. Baylor College of Medicine.
2. The Thirty-third Annual Symposium of Fundamental Cancer Research. Houston, Texas.
3. Annual Meeting of the American Association for the Advancement of Science. Houston, Texas.
4. The Sixty-fourth Annual Meeting of the Federation of American Societies for Experimental Biology. Anaheim. California.
5. The 39th Annual National Meeting of the National Institute of Science and Beta Kappa Chi Scientific Honors Society in Concurrent Session with the Brookhaven Semester Program, Washington, D.C.
6. The 27th Annual Regional Meeting of the Beta Kappa Chi Scientific Honors Society, Houston, Texas.

The 28th Annual Regional Meeting of the Beta Kappa Chi Scientific Honors Society; Dallas, Texas.

The 29th Annual Regional Meeting of Beta Kappa Chi National Scientific Honors Society, Prairie View, Texas.
7. (a) Texas Association of Advisors for the Health Professions. Annual Meeting, San

Antonio, Texas.

(b) Texas Association of the Advisors for the Health Professions, Annual Meeting, Houston, Texas.

(c) Texas Association of the Advisors for the Health Professions, Annual Meeting, College Station, Texas.

8. Program Directors Conference MBRS Program. Washington, D.C.

CONFERENCES ATTENDED

1. The Sixth Annual Conference of Health Professions Advisors - Baylor College of Medicine.
2. Annual Meeting of the National Collegiate Honors Council - Washington State University.
3. Conference Workshop on Medical Education; Sponsored by Tulane Medical Center - Biloxi, Miss.
4. Biomedical/Life Science Research Applications in Space. The University of Texas Health Science Center at Houston and The National Aeronautics and Space Administration - Houston, Texas.
5. The National Health Service Corps and Phelps-Stokes Fund- Evaluation and Planning Conference - Greensboro, N.C.
6. Health Related Sciences Workshop and Conference; Texas Southern University.
7. "Expanding the Pool of Qualified Under-Represented Minority Applicants to Medical Schools" - Baylor College of Medicine.
8. "Counseling the Premedical Student"; Meharry Medical College.
9. "Expanding the medical Experience"; The University of Texas Medical School at Houston. Houston, Texas.